

**CIP  
EXPENSE DETAIL**

**DATE OF COUNCIL CONSIDERATION:**

**CONTACT DEPARTMENT(S):**

Austin Water Utility

**SUBJECT.** Authorize negotiation and execution of a professional services agreement with CAROLLO ENGINEERS, INC., (staff recommendation) or one of the other qualified responders to RFQ Solicitation No. CLMP130, to provide engineering services for the South Austin Regional Wastewater Treatment Plant Blower Improvement Project in an amount not to exceed \$2,500,000.

**CURRENT YEAR IMPACT:**

<b>Department:</b>	<b>Austin Water Utility</b>
Project Name:	Sar Replace Trains A & B Blowers
Fund/Department/Unit:	4570 2307 4670
Funding Source:	Commercial Paper
Current Appropriation:	2,550,000.00
Unencumbered Balance:	2,550,000.00
Amount of This Action:	(2,500,000.00)
Remaining Balance:	<u>50,000.00</u>
Total Amount of this Action	<u>2,500,000.00</u>

**ANALYSIS / ADDITIONAL INFORMATION:** The South Austin Regional Wastewater Treatment Plant (SARWWTP) consists of three treatment trains: Train A, Train B, and Train C. Each train generally consists of initial screening, raw sewage pumping, preliminary clarification, activated sludge treatment, final clarification, filtration, and disinfection. Treatment Train A was constructed in 1986, followed by Treatment Train B in late 1988, and Treatment Train C in 2005. Treatment Trains A and B were originally each designed to treat 20 million gallons per day (MGD) of sewage, but were rerated to treat 25 MGD each shortly after construction. Train C was constructed with the capacity to treat 25 MGD of sewage giving SARWWTP a total treatment plant capacity of 75 MGD.

In August of 2011, SARWWTP experienced a major chlorine leak which significantly damaged the Train A and B blowers. The blowers are a vital component of the treatment process, and provide air for many purposes including the activated sludge treatment process. The chlorine leak damaged all the blower controls, instrumentation, condition monitoring devices, the building where the blowers were housed, including the motor control center for blowers and other electrical equipment that was in the same building, such as air conditioning, lighting, and ventilation fans. Emergency repairs were completed including the installation of temporary blowers and other equipment which allowed Trains A and B to be operational. Recently, a condition assessment of the secondary treatment building was completed with preliminary results showing all blowers (existing and temporary) have a remaining useful life between 1 and 5 years.

Professional engineering services are being procured to provide expertise related to repair or replacement of damaged and aged facilities. The selected firm will be required to: conduct a detailed condition assessment of the facilities and the blowers; provide recommendations for repair, replacement or rehabilitation of building components of the secondary treatment building; develop several recommendations for the blowers which may include total replacement, partial rehabilitation and potential phasing options and to develop a business case for each recommendation; provide an evaluation of non-economic factors including operational flexibility, ease of operations, sustainability, and other factors. Along with the number and type of blowers, the selected firm will identify and evaluate load and demand management options to support plant optimization and energy conservation opportunities.

This authorization provides for funding of services related to preliminary engineering, design, bid and award, construction, and warranty phases.

**CIP  
EXPENSE DETAIL**

**DATE OF COUNCIL CONSIDERATION:**

**CONTACT DEPARTMENT(S):**

Austin Water Utility

construction, and warranty phases.

This request allows for the development of a professional service agreement with the staff recommended firm or one of the other qualified responders that Council selects. If the City is unsuccessful in negotiating a satisfactory agreement with the selected responder, negotiations will cease with that provider. Staff will return to Council so that Council may select another qualified responder and authorize contract negotiations with this provider.

Participation subgoals stated in the solicitation were 1.90% African American; 9.00% Hispanic; 4.90% Native/Asian American; 15.80% WBE. The recommended firm provided a MBE/WBE Compliance Plan that met the goals of the solicitation and was approved by the Small and Minority Business Resources Department. The alternate firm provided a MBE/WBE Compliance Plan that met the goals of the solicitation and was approved by the Small and Minority Business Resources Department.

Notification of issuance of a Request for Qualifications (RFQ) for the subject services was sent to 2171 firms on April 3, 2013. The RFQ was obtained by 127 firms and 6 submitted qualification statements. None of the firms were certified MBE/WBE firms. Of the six firms evaluated, one firm was recommended. Interviews were necessary to determine the recommended firm.

**RECOMMENDED FIRM:** CAROLLO ENGINEERS, INC

**ALTERNATE FIRM:** AECOM TECHNICAL SERVICES, INC

Carollo Engineers, Inc is located in Austin, Texas